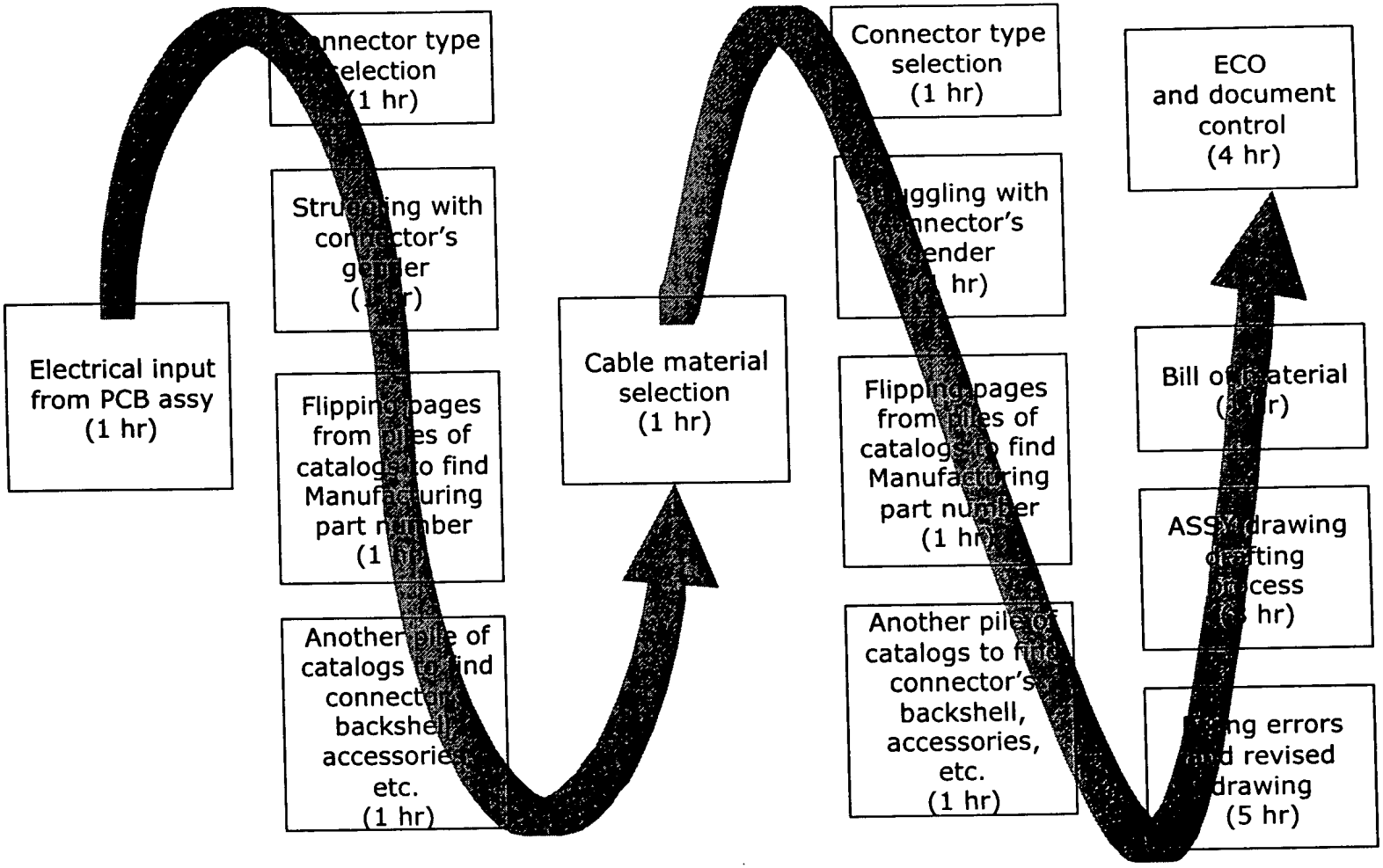
Electrical input from PCB assy (1 hr)
Connector type selection (1 hr)
Struggling with connector's gender (1 hr)
Flipping pages from piles of catalogs to find Manufacturing part number (1 hr)
Another pile of catalogs to find connector's backshell, accessories, etc. (1 hr)
Cable material selection (1 hr)
Connector type selection (1 hr)
Struggling with connector's gender (1 hr)
Flipping pages from piles of catalogs to find Manufacturing part number (1 hr)
Another pile of catalogs to find connector's backshell, accessories, etc. (1 hr)
ECO and document control (4 hr)
Bill of material (1 hr)
ASSY drawing drafting process (3 hr)
ng errors d revised drawing (5 hr)

FIG. 1

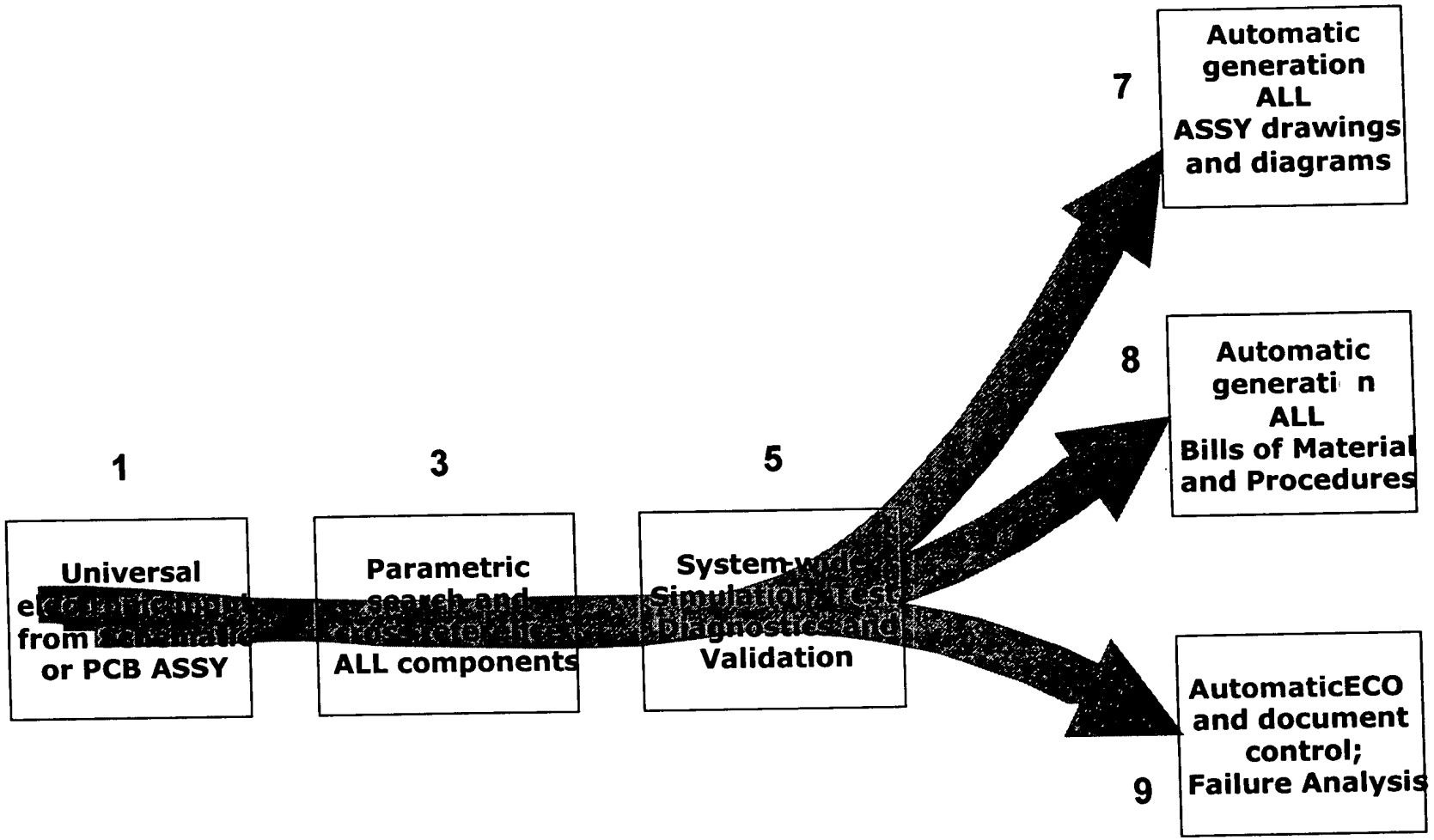
1
3
5
7
8
9
Universal
from
or PCB ASSY
Parametric
ALL components
System-wide
Validation
Automatic
generation
ALL
ASSY drawings
and diagrams
Automatic
generati n
ALL
Bills of Material
and Procedures
AutomaticECO
and document
control;
Failure Analysis

FIG. 2

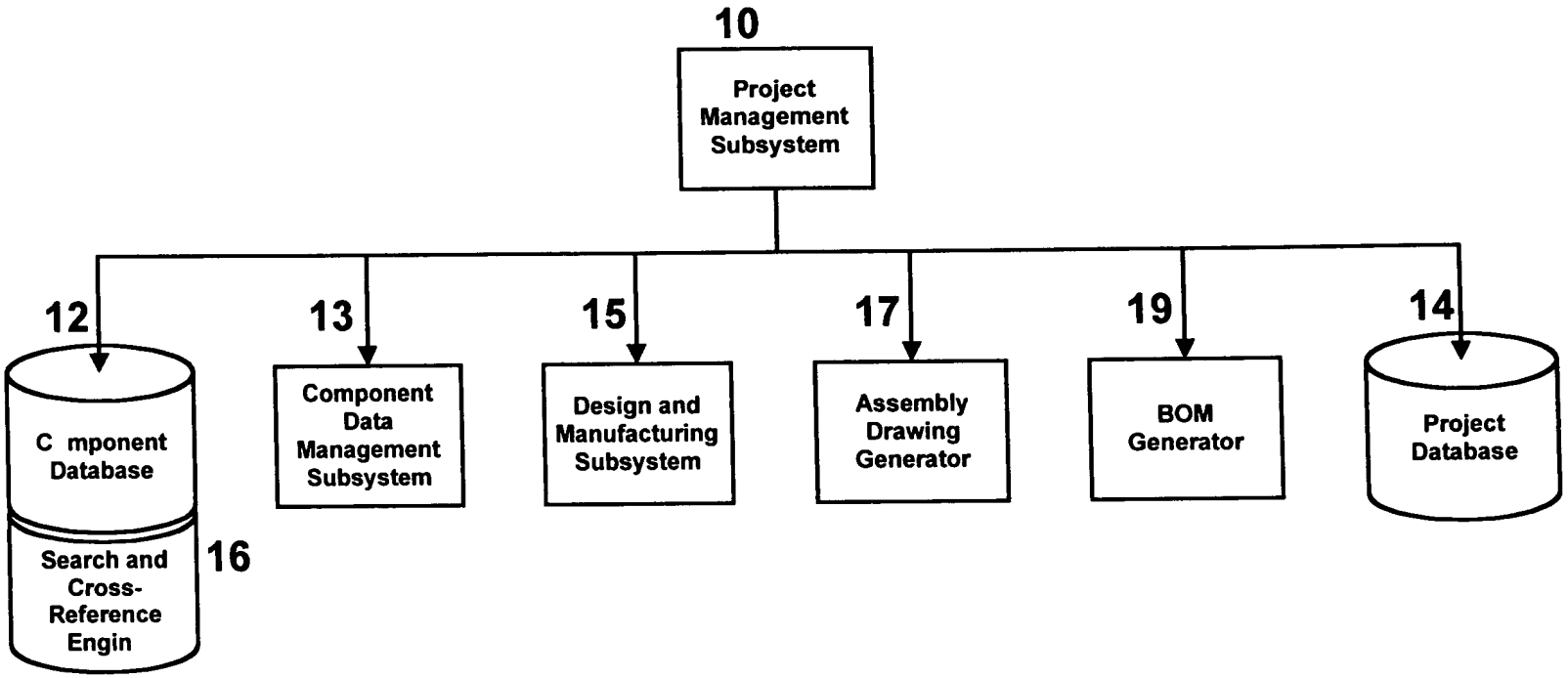
10
Project Management Subsystem
12
C mponent Database
Search and Cross-Reference Engin
16
13
Component Data Management Subsystem
15
Design and Manufacturing Subsystem
17
Assembly Drawing Generator
19
BOM Generator
14
Project Database

FIG. 3

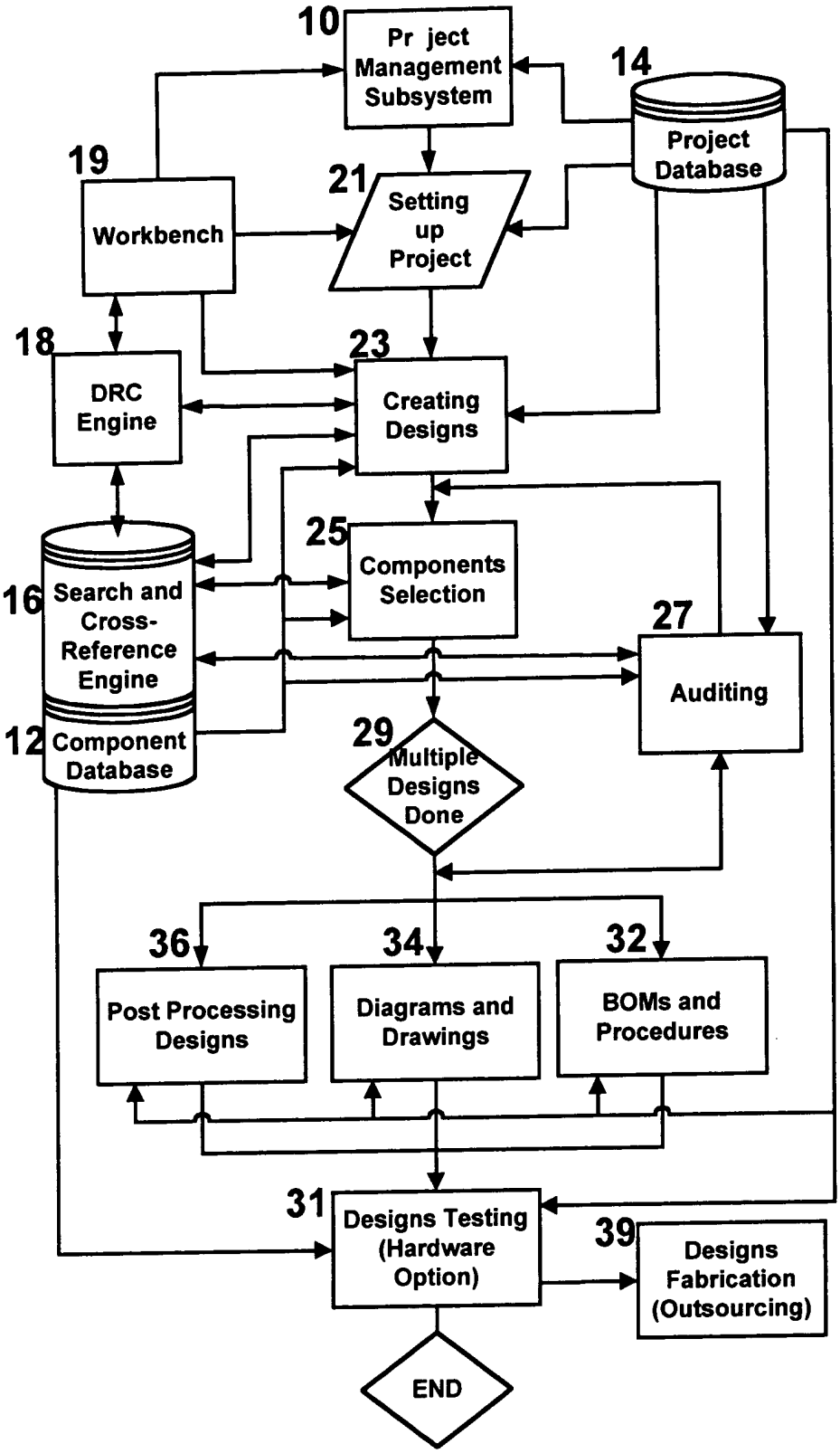
10
Pr ject Management Subsystem
14
Project Database
19
Workbench
21
Setting up Project
18
DRC Engine
23
Creating Designs
25
Components Selection
16
Search and Cross-Reference Engine
27
Auditing
12
Component Database
29
Multiple Designs Done
36
Post Processing Designs
34
Diagrams and Drawings
32
BOMs and Procedures
31
Designs Testing (Hardware Option)
39
Designs Fabrication (Outsourcing)
END

FIG. 4

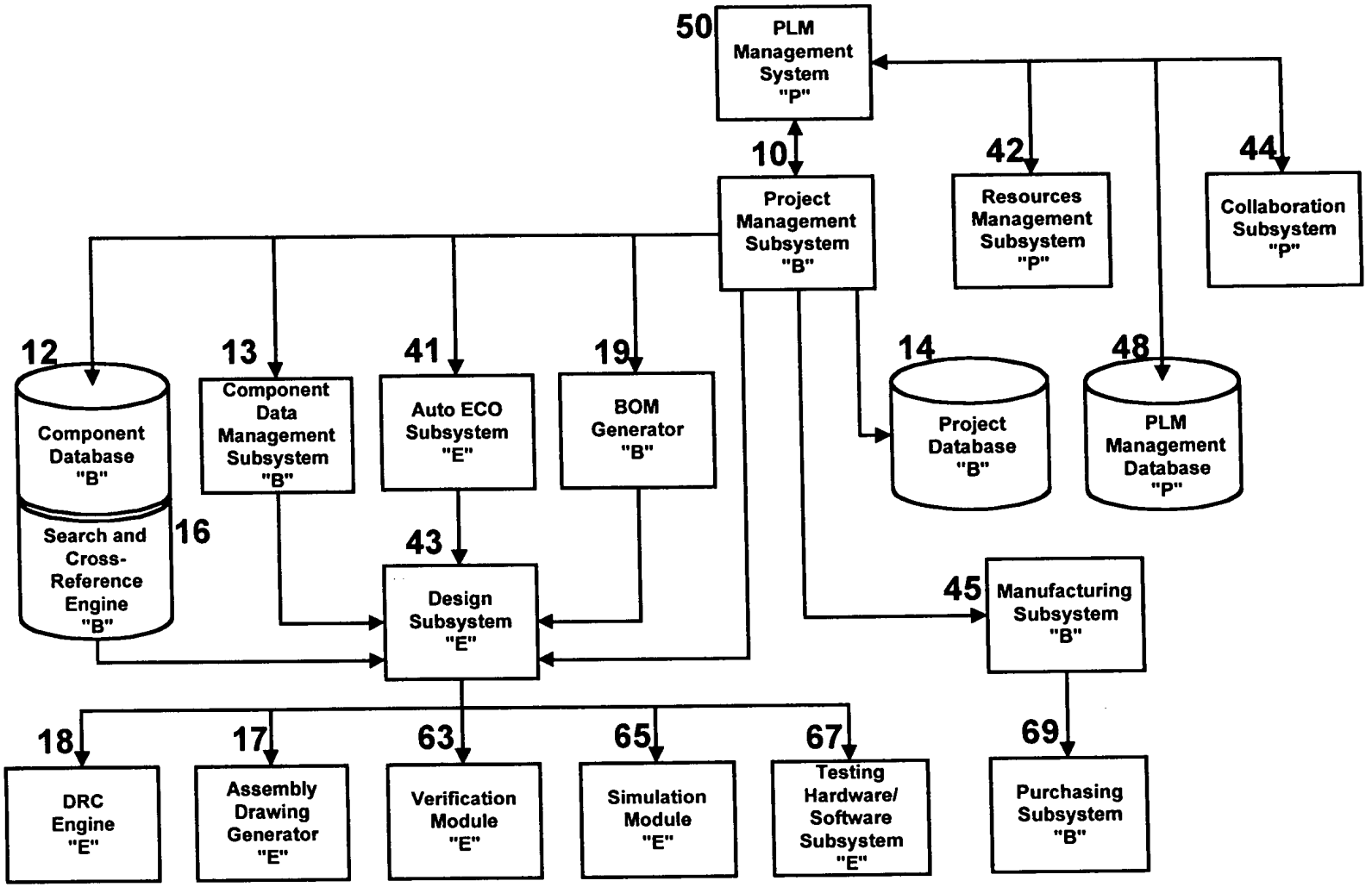
50
PLM Management System "P"
10
Project Management Subsystem "B"
42
Resources Management Subsystem "P"
44
Collaboration Subsystem "P"
12
Component Database "B"
16
Search and Cross-Reference Engine "B"
13
Component Data Management Subsystem "B"
41
Auto ECO Subsystem "E"
19
BOM Generator "B"
43
Design Subsystem "E"
14
Project Database "B"
48
PLM Management Database "P"
45
Manufacturing Subsystem "B"
18
DRC Engine "E"
17
Assembly Drawing Generator "E"
63
Verification Module "E"
65
Simulation Module "E"
67
Testing Hardware/ Software Subsystem "E"
69
Purchasing Subsystem "B"

FIG. 5

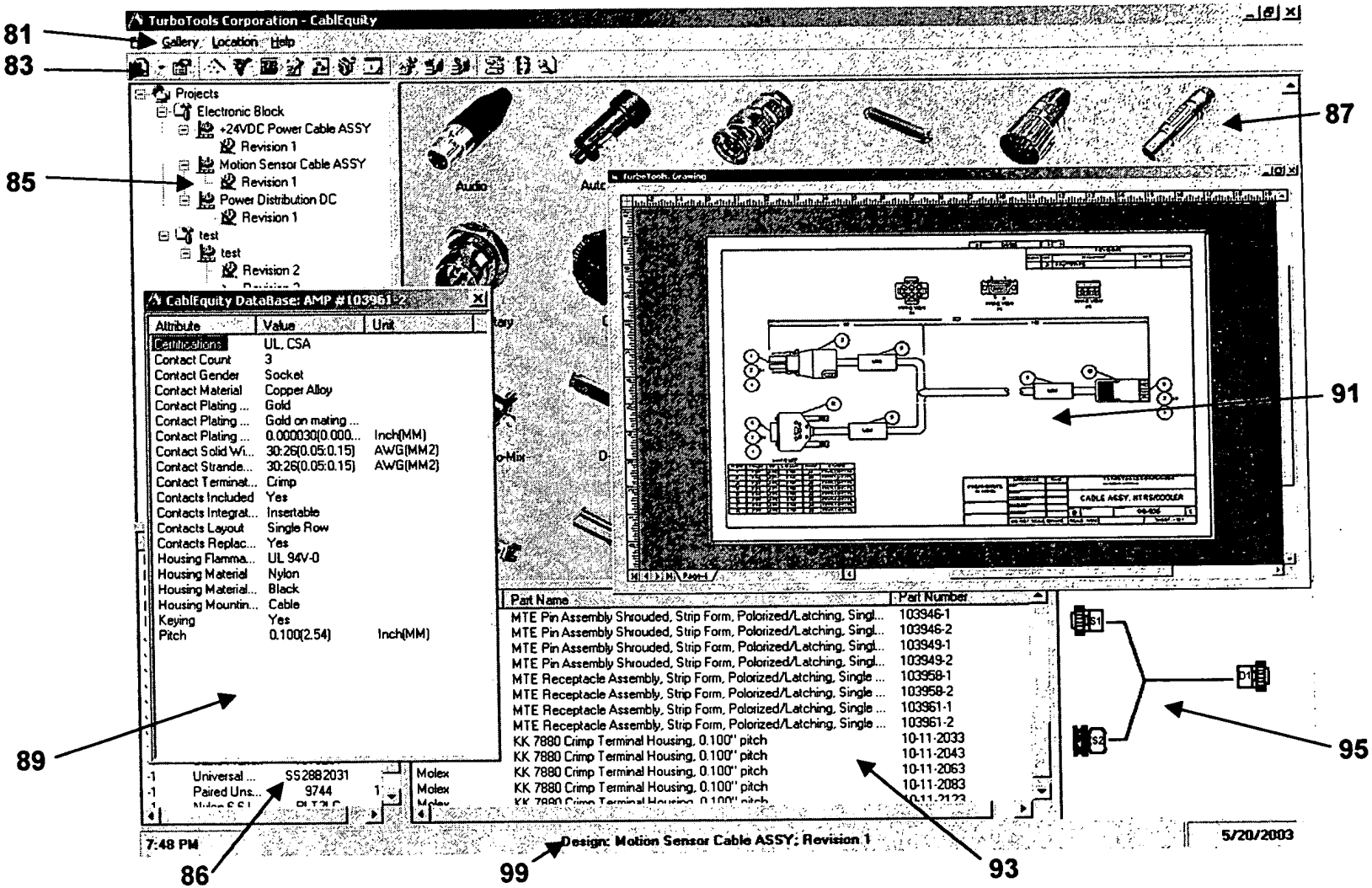
TurboTools Corporation - CablEquity
Gallery Location Help
Projects
Electronic Block
+24VDC Power Cable ASSY
Revision 1
Motion Sensor Cable ASSY
Revision 1
Power Distribution DC
Revision 1
test
test
Revision 2
CablEquity DataBase: AMP #103961-2
Attribute Value Unit
Certifications UL, CSA
Contact Count 3
Contact Gender Socket
Contact Material Copper Alloy
Contact Plating ... Gold
Contact Plating ... Gold on mating ...
Contact Plating ... 0.000030(0.000... Inch(MM)
Contact Solid Wi... 30:26(0.05:0.15) AWG(MM2)
Contact Strande... 30:26(0.05:0.15) AWG(MM2)
Contact Terminat... Crimp
Contacts Included Yes
Contacts Integrat... Insertable
Contacts Layout Single Row
Contacts Replac... Yes
Housing Flamma... UL 94V-0
Housing Material Nylon
Housing Material... Black
Housing Mountin... Cable
Keying Yes
Pitch 0.100(2.54) Inch(MM)
Part Name
Part Number
MTE Pin Assembly Shrouded, Strip Form, Polorized/Latching, Singl... 103946-1
MTE Pin Assembly Shrouded, Strip Form, Polorized/Latching, Singl... 103946-2
MTE Pin Assembly Shrouded, Strip Form, Polorized/Latching, Singl... 103949-1
MTE Pin Assembly Shrouded, Strip Form, Polorized/Latching, Singl... 103949-2
MTE Receptacle Assembly, Strip Form, Polorized/Latching, Single ... 103958-1
MTE Receptacle Assembly, Strip Form, Polorized/Latching, Single ... 103958-2
MTE Receptacle Assembly, Strip Form, Polorized/Latching, Single ... 103961-1
MTE Receptacle Assembly, Strip Form, Polorized/Latching, Single ... 103961-2
KK 7880 Crimp Terminal Housing, 0.100" pitch 10-11-2033
KK 7880 Crimp Terminal Housing, 0.100" pitch 10-11-2043
KK 7880 Crimp Terminal Housing, 0.100" pitch 10-11-2063
KK 7880 Crimp Terminal Housing, 0.100" pitch 10-11-2083
Universal ... SS2882031
Paired Uns... 9744
Molex
Molex
7:48 PM
Design: Motion Sensor Cable ASSY: Revision 1
5/20/2003
81
83
85
87
89
91
93
95
86
99

FIG. 6